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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,477	07/18/2003	Xiangdong Chen	FIS920030102US1	4523
32074 INTERNATIO	7590 05/31/2007 NAL BUSINESS MACI	EXAMINER		
DEPT. 18G BLDG. 300-482 2070 ROUTE 52 HOPEWELL JUNCTION, NY 12533			NGO, NGAN V	
			ART UNIT	PAPER NUMBER
			2818	
				<del>,</del>
			MAIL DATE	DELIVERY MODE
			05/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/622,477					
Office Action Summary		CHEN ET AL.				
,	Examiner	Art Unit				
The MAILING DATE of this communication app	Ngan Ngo	2818				
Period for Reply	Jears on the cover sh	eet with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMI 36(a). In no event, however, will apply and will expire SIX e, cause the application to be	MUNICATION. may a reply be timely filed  (6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 M	Responsive to communication(s) filed on <u>10 May 2007</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 193	5 C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 8-15 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 1-7 is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers  9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc	n from consideration or election requireme	<b>nt</b> .				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	tion is required if the di	rawing(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Par 5) 🔲 Not	erview Summary (PTO-413)  er No(s)/Mail Date  ice of Informal Patent Application  er:				

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The amendment filed May 10, 2007 has been entered and made of record as paper no. 0507.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 7 stand rejected under 35 U.S.C. 103(a) as being unpatentable over, Applicants' prior art figure 1 in view of Chang et al (US 6,696,717 B2).

Applicants' prior art figure 1 discloses all the subject matter claimed except for the gate being formed by two different materials. Chang discloses a gate electrode having a first region (116) filled with polysilicon germanium and a second region (124) formed of polysilicon on top of the first region. Lines 48-50, column 3 of Chang teaches that the control gate comprising both first region and second region. Therefore, it would have been obvious to one of ordinary skill in the art to form a control gate having two gate regions in Applicants' prior art figure 1 as taught by Chang in order to improve the vertical MOSFET transistor.

In re claim 6, the upper (124) and lower (116) layer gate materials in Chang comprises polysilicon.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngan Van Ngo Primary Examiner

Ngan Ngo

May 27, 2007